

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-232943

(43)Date of publication of application : 16.08.2002

(51)Int.Cl.

HO4Q 7/38

HO4B 7/26

HO4B 1/707

(21)Application number : 2001-020830
(22)Date of filing : 29.01.2001

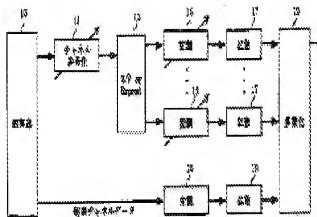
(71)Applicant : SONY CORP
(72)Inventor : SATO MASANORI

(54) DATA TRANSMISSION PROCESSING METHOD, DATA RECEPTION PROCESSING METHOD, TRANSMITTER, RECEIVER, AND CELLULAR WIRELESS COMMUNICATION SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a cellular wireless communication system where transmission power in a base station is not controlled and a substantial reception sensitivity even at a position apart from the base station can be enhanced.

SOLUTION: A mobile station measures the reception sensitivity of the mobile station on the basis of control channel data from the base station and reports the result of measurement to the base station. The base station decides a transmission mode on the basis of the reported measurement result. When the reception sensitivity of the mobile station is low, a copy section 13 copies transmission object data coded by a coding section 11 of the base station to a plurality of the same data, modulation sections 15 modulates the data, and spread sections 17 uses



codes to apply spread spectrum processing to the modulated data as a specific transmission mode. Inverse spread sections 35 of a receiver of the mobile station use the same codes as those used for the transmission to apply inverse spread processing to the received data corresponding to the transmission mode, demodulation sections 47 demodulate the data, an adder section 49 sums them, and a decoding section 50 decodes the sum output to reproduce the data.